



TRITON
ADVANCED SEARCH

SURFACE TREATMENT SOLUTIONS

MACHINE WITH CONVEYOR BELT SYSTEM



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GENERAL FEATURES OVERVIEW

TRITON tunnel washing machine with conveyor belt system, is characterized by **versatility, high productivity and efficiency, friendly operations, and quality of the treatment**. This machine can be configured for simple processes or for very articulated processes, according to the number of different phases foreseen by the treatment. The fabrication, completely made in **AISI 304 or 316**, is characterized by extreme structural strength. The finishing of the outer panels can be paint or brushed stainless steel panels. As energy source for the heating of the tanks and the drying air, the options are: electricity, natural gas or LPG gas, diesel oil, steam or “superheated” water.



INSPECTION AND MAINTENANCE

All spraying ramps are connected to the distribution manifolds with quick-release couplings in AISI 304. This system allows the rapid removal of all ramps and their proper repositioning without using any kind of tools. Also the individual nozzles are fitted with a special spring connection that allows a quick disassembly and the subsequent repositioning without the risk of changing the inclination or the correct spraying angle.

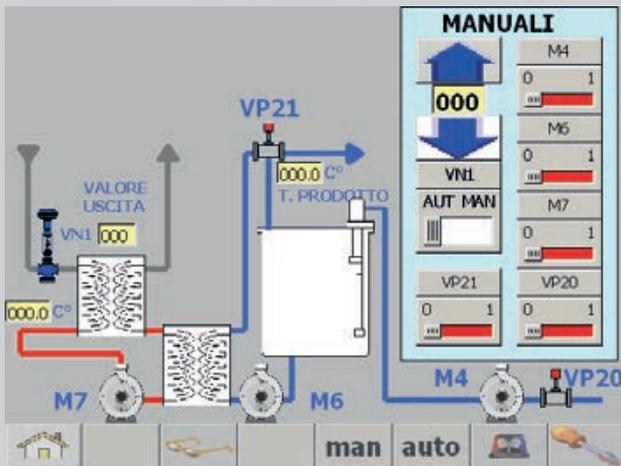
All treatment areas, are easily inspected through large doors, located on the opposite side of the water tanks. Some machines, with small passage sections, may have the higher part of the tunnel that completely opens. The opening is facilitated by gas springs or automated pneumatic cylinders. Moreover, to facilitate the treatment tanks cleaning, our machines are designed with large cover and portholes (walking pace) to physically enter in all process tanks.



SECURITY AND CONTROL

All access doors to the treatment chambers, are interlocked with sensors or electrical contact hinges. These components are class 4 approved and managed by PILZ safety relays.

The management and supervision of the process can be entrusted to a PLC with operator panel interface, where all operating parameters (temperature, pressure, level, etc.) are set. Thanks to the logic of the PLC, the start of the different engines is performed in sequence to avoid major current peaks. Moreover, if equipped with photocells at the entrance of the tunnel, the PLC can manage the switch off in sequence of the different zones, with a consequent greater energy saving.



ENERGY SAVING AND ENVIRONMENTAL FRIENDLY SOLUTIONS

The tube bundle heat exchangers, fed from fuel burners, are made of stainless AISI 304 and are designed with suitable geometries to achieve a high thermal efficiency. In multi-stages washing machines, TRITON system foresees the recovery of the exhaust gas from the heat exchanger of the first degreasing tank, in order to achieve, thanks to a second heat exchanger, the heating of the following rinsing tank, with significant energy savings. The washing machines can be equipped with a system for the condensation of the hot vapors to avoid the fabrication of the external exhaust chimney for their extraction. This system, which employs an electric exhaust unit and a heat exchanger with "air/air" crossed plates, allows the condensation of the saturated vapors and the consequent return to the machine of the condensate in the liquid status.

